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Methods and apparatus are disclosed for a combined bulk and transactional database synchronization scheme. A dynamically changing primary database is initially duplicated to a secondary database using bulk and transactional updates. Then, the secondary database is maintained in synchronization with the primary database using transactional updates. In one implementation, the primary database is divided into synchronization groups. Initially, all the groups are marked as requiring bulk synchronization. Systematically, entries from a group are combined into a bulk update message and relayed to a secondary device or component to bulk update the secondary database. When a new update to the primary database is made, if the group to which it belongs is in the process of, or still requires bulk updating, this new update will be propagated to the secondary database in due course with a subsequent bulk update. Otherwise, the new update is placed in transactional update message. --

In re ANINDYA CHAKRABORTY
Application No. 09/813,576

The Abstract as replaced herein fully complies with the requirements of 37 CFR 1.136(a). Moreover, no new matter has been added with the amendment to the Abstract.

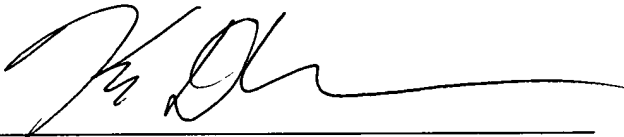
In view of the above amendment to the abstract, the application is considered in good and proper form for examination. Applicants believe that no fee is due, however, the Commissioner is hereby authorized to charge payment of any fee due associated with this communication to Deposit Account No. 501430.

Moreover, the Commissioner is hereby authorized to charge payment of any fee due any under 37 C.F.R. §§ 1.16 and § 1.17 associated with this communication or any future communication in this or any related application filed pursuant to 37 C.F.R. § 1.53 or credit any overpayment to Deposit Account No. 501430. Furthermore, the Commissioner is hereby generally authorized under 37 C.F.R. § 1.136(a)(3) to treat this communication or any future communication in this or any related application filed pursuant to 37 C.F.R. § 1.53 requiring an extension of time as incorporating a request therefore, and the Commissioner is hereby specifically authorized to charge Deposit Account No. 501430 for any fee that may be due in connection with such a request for an extension of time.

Respectfully submitted,
The Law Office of Kirk D. Williams

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By



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